

The CRUSHED STONE JOURNAL

PUBLISHED BY
The National Crushed Stone Association
651 Earle Building, Washington, D. C.

NO. 124

FEBRUARY, 1927

Our Convention at Detroit

REVIEWED BY A. T. GOLDBECK

At the close of the Detroit Convention there must have been a common thought in the minds of those in attendance, judging from the enthusiastic expressions of opinion heard on all sides. Everyone was agreed that this year's convention surpassed all others held by the National Crushed Stone Association, not only in point of attendance but also in intensity of interest in the various proceedings, in the instructive and constructive nature of the papers presented, in the excellence of the Manufacturers' Division Exposition, the genial atmosphere of good fellowship and the unconscious display of solidarity by which the industry is united. All of these helped to make for the splendid results attained. Surely it was manifest that the National Crushed Stone Association has become a powerful organization exerting great influence for the good of the industry and of very considerable value both directly and indirectly to the users of crushed stone.

President Graves formally opened the Convention by introducing J. W. Reed, Commissioner of Public Works of the City of Detroit, who represented Mayor John Smith. In a very graceful manner Commissioner Reed welcomed the delegates and assured them of the hospitality of the city and of the desire of the Mayor that the Convention be successful and enjoyable. An eloquent response was made by President Graves who then continued to deliver a most comprehensive presidential address in which he outlined the Association events of the year just past. He touched on the western trip recently taken by the officers in the interests of the Association and told something of the plans for enlargement of the Association's work through the establishment of research facilities. He also cited many instances of activity engaged in by the Association during the past year. We have become accustomed to expect eloquence, solid

thought and words of good cheer and wisdom from President Graves and not once have we been disappointed.

Reports from the various Directors as to business conditions throughout the country showed that, in general, the past year has been a very successful year for the crushed stone industry and, with few exceptions, a bright outlook was forecast for the present year.

At the luncheon a most inspiring address was delivered by John N. Van der Vries, Manager Northern Central Division, United States Chamber of Commerce, and President, Chicago Rotary Club. Mr. Van der Vries spoke on the subject "What Is It All About," and one could not listen without obtaining a clearer idea of the advantages to be gained from united efforts on the part of any industry as opposed to single-handed efforts which so often are futile. No stronger appeal for the banding together of an industry in a national association could have been made than was made by Mr. Van der Vries. Such an address alone was worth travelling many miles to hear.

The Monday afternoon session was opened by A. T. Goldbeck, Director, Bureau of Engineering, National Crushed Stone Association, with a paper entitled, "Where Progress Lies in the Crushed Stone Industry." This paper referred to many types of construction and emphasized the necessity for maintaining high quality in grading and cleanliness of crushed stone for practically every purpose for which it is used. The thoughts expressed are the result of observation throughout the country and of many talks with producers in widely distributed localities. Detailed study should be given this paper when it is finally published.

Wm. E. Stanley of Pearse, Greeley and Hansen, Chicago, Illinois, gave an illustrated paper on "Crushed

Stone for Sewage Disposal and Water Purification Work." Mr. Stanley has been very active in gathering information on materials used in sewage disposal work in connection with a committee on this subject of the American Society of Civil Engineers. He pointed out that stone for sprinkling filters must be clean and uniformly graded. It must also have resistance against freezing and thawing and to the chemical action of the sewage effluent. The surface of the material used in sprinkling filter beds must also be neither too smooth nor too rough. We are much indebted to Mr. Stanley for his illuminating paper on this subject.

C. N. Conner, of the Highway Research Board of the National Research Council, presented a paper of much interest to crushed stone producers on the subject, "The Use of Crushed Stone in Intermediate Types of Road Construction." Mr. Conner emphasized the importance of intermediate type roads and showed statistics indicating that a tremendous mileage of intermediate type roads remains to be constructed. Such roads find their usefulness in locations where the traffic has become too heavy for the lower types such as earth, sand-clay and gravel, but does not approach the intensity required for the highest types of pavements. Included in Mr. Conner's discussion were such types as the "veneer" construction used in North Carolina and the "half-sole" or "re-tread" method of construction recently used in a number of states. Intermediate road types seem to offer markets of much promise to crushed stone producers.

Col. O. P. Chamberlain, Chairman of the Committee on Standards of the Association, offered a report which showed very considerable activity on the part of his Committee during the past year. He dealt with standardization of equipment and standardization of sizes of crushed stone. It is quite apparent that Col. Chamberlain's Committee is making progress and that it promises to be the means for effecting a considerable saving to the industry in the future by virtue of the simplification in machinery and processes which standardization is certain to produce.

On Monday evening the Manufacturers' Division Exposition was formally opened and the visitors were prolific in their praise of the splendid arrangements which had been made for the proper showing of manufacturers' equipment. At this year's exposition sixty-four booths were sold to fifty-two exhibitors, a very considerable increase over last year.

It was quite evident that even more care had been taken by individual exhibitors to prepare an attractive display and this was thoroughly appreciated by those viewing the exhibits. At these yearly expositions the producers and their

operating men are brought more directly into contact with the manufacturers of the equipment they use and thereby they are enabled to more fully judge of the suitability of particular types of equipment for their special needs. Producers are thus kept informed of new developments and thus is progress promoted within the industry.

The exposition was followed by a smoker and entertainment in whose atmosphere of relaxation much good fellowship prevailed and many bonds of friendship were formed.

The Tuesday session was replete with instructive papers and reports. The first of these was by A. C. Avril, Mining Engineer of the France Stone Company, in which he described the installation of the laboratory of the France Stone Company, its purpose and program. It is encouraging to note that the crushed stone industry is awakening to the idea that through research methods its products will be made even more useful and will be given even wider recognition.

W. R. Sanborn, reporting for his Committee on Winter Storage of Stone, told of a meeting on this subject held at Kansas City on December 20th. The favorable and unfavorable items involved in winter storage were discussed from the quarrymen's viewpoint and the engineers and those in charge of the planning of the work were also considered in his discussion. It was quite evident that Mr. Sanborn's Committee had given very considerable thought to the problem of winter storage and much credit is due him for the very able and comprehensive manner in which his subject was handled and presented before the Convention.

The super-highway and its part in Detroit's modern plan was admirably treated by Col. Sidney D. Waldon, Chairman, Detroit Rapid Transit Commission. As an example of firm conviction and faith in the development of the city promised by the future, Col. Waldon's address was a most inspiring one to those in attendance. He ably demonstrated the solid foundation upon which his foresight and optimism in Detroit's development were founded.

R. W. Coburn, Construction Engineer, Department of Public Works, Boston, Massachusetts, gave a most enlightening paper on bituminous road construction. His figures on the maintenance cost of the various types of roads subjected to modern traffic in Massachusetts were very interesting to those present. Both Portland cement concrete and bituminous macadam roads are proving very successful for the main highways in Massachusetts and the maintenance figures of both types are very low.

K. E. McConaughay, of the Hayes Construction Company, Indianapolis, gave an instructive paper on "Some Modern Developments in Bituminous Road Construction and Maintenance." He very carefully described the successful methods for bituminous macadam construction used in In-

diana, in which four applications of bituminous material are applied. He followed this by a reference to the black base type of construction in which a bituminous macadam course is used for the base to be covered either with bituminous concrete, bituminous macadam, re-tread top or rock asphalt. It was stated that the penetration macadam base course is working out in a highly satisfactory manner and is very economical. The so-called "re-tread" method of wearing surface construction, which is of a type intermediate between that of bituminous macadam and surface treatment, was also thoroughly described. This paper was briefly discussed by George E. Martin, of The Barrett Company, New York City.

The morning session was closed by a very able paper on bituminous macadam construction presented by Geo. H. Henderson, Chief Engineer, State Board of Public Roads, Rhode Island. The State of Rhode Island has long been famed for the excellence of its bituminous macadam roads and the Convention is to be considered as fortunate in having so high an authority as Mr. Henderson address it on this subject.

At the group luncheons held on Tuesday afternoon, instructive talks were given on subjects of particular interest to the operating men, superintendents and manufacturers and also to the salesmen. The necessity for statistical facts was emphasized in a talk by Arthur Livingston of Detroit. He showed how statistics can be of very great value to an industry in many different ways, such as developing potential markets, finding out where the weak points are, where additional salesmen should be placed, etc. Many points of importance to salesmen were brought up by Mr. Livingston in his very excellent talk to the sales group.

F. C. McKee, Chairman of the Committee on Research of the Association, presented an informal report to the various groups and made a strong appeal for support of the research program, involving the establishment of a research laboratory by the Association.

At the National Agstone Association meeting presided over by L. E. Poorman, President of the National Agstone Association, an important paper was presented by J. R. Bent, Director, Farm Supply Department, Illinois Agricultural Association, Chicago, Illinois, on the subject, "Marketing Agstone in Illinois." He gave a number of specific suggestions for the development of the use of limestone for agricultural purposes.

Dr. Herbert F. Krieger, formerly in charge of the Research Work of the National Agstone Association, gave an instructive paper entitled, "Relations of Fineness of Agstone to Its Rate of Solubility." Much light was thrown on the proper size of limestone for use in soils and his paper will go far toward clarifying the conflicting ideas now existing on the subject of the proper size for agricultural limestone.

Fred L. Petty, National Farm Radio Council of Chicago, gave a very interesting talk in which he presented numerous

reasons why the use of the radio might be beneficial in broadcasting the message of agricultural limestone to the farmers.

On Wednesday morning the program started with a very excellently prepared paper on "Stone Dust, Its Use and Preparation." W. M. Weigel, formerly with the U. S. Bureau of Mines and now mineral technologist of the Missouri Pacific Railroad, has made a detailed study of this subject and the information which he gave the producers should be of great value.

The value of a highway transport survey was discussed by Geo. F. Schlesinger, Director of Highways and Public Works, Columbus, Ohio. Mr. Schlesinger told of the recent transport survey conducted jointly by the Ohio State Highway Department and the U. S. Bureau of Public Roads. Although such surveys are very expensive, they furnish information of vital importance in the intelligent selection of highway routes and in the proper design of highway surface and they pay dividends to the tax payer. Mr. Schlesinger announced that within a few months a report on this subject would be available to the members of the Association and could be procured by writing to the Ohio State Highway Department at Columbus.

W. D. M. Allan, Portland Cement Association, described the use of crushed stone in the manufacture of concrete products. He made the point that stone screenings are very useful for concrete product manufacture, particularly with the dry mixes ordinarily used. He also stated that the dust was even beneficial in that it promoted plasticity and prevented breaking apart of the products in the early stages of their hardening. On the other hand, he felt that a large amount of dust in wet mixtures might lead to the formation of layers of non-cementitious material and to an excessive amount of laitance on the surface of the concrete.

"Commercial Sizes of Broken Stone," proposed as a tentative standard of the American Society for Testing Materials, was the subject handled by F. H. Jackson, Senior Engineer of Tests of the U. S. Bureau of Public Roads. Mr. Jackson is chairman of the sectional committee of the Road Materials Committee of the A. S. T. M. which is directly handling this subject. He has made an extensive study of it from the standpoint of the highway engineer and has also studied production in a number of quarries and is very well qualified to talk on his subject. His address will undoubtedly be of considerable assistance to the Association's Committee on Standards which is also studying the matter of commercial sizes of stone.

Perhaps the high point of the Convention was reached on Wednesday evening at the Banquet presided over by H. E. Bair, General Manager of the France Stone Company, Toledo. Mr. Bair was introduced by President Graves who, however, first requested all of those attending to stand in silent tribute to our two past Presidents, F. W. Schmidt and J. J. Sloan, both of whom had been taken from us during the past year. Mr. Bair was entirely equal to the dif-

ficult task imposed upon him and handled the banquet with characteristic ease and assurance. His opening announcement of the unanimous re-nomination of Mr. Graves for the office of President during the coming year was met with universal acclaim and rising applause that well demonstrated the strong affection which President Graves has earned in the hearts of the entire membership.

Unfortunately, A. J. Brosseau, President, Mack Trucks, Inc., New York City, was confined in his home by illness but Chas. M. Upham, Managing Director, American Road Builder's Association and Director, Highway Research Board of the National Research Council, served as an exceedingly able substitute and told of plans which he hopes will result in greater safety on the highways. Mr. Upham's talk was very well delivered and given an enthusiastic reception by those in attendance.

Frank T. Sheets, Chief Highway Engineer of the Division of Highways, Springfield, Illinois, talked on a subject which held the attention of the guests from start to finish. His main theme was that of unselfishness and he made it clear by numerous examples how unselfishness on the part of the individual or by a group could not but redound to their ultimate benefit. Those at the banquet undoubtedly were greatly impressed with the message delivered by Mr. Sheets.

Dr. Edward James Cattell, Author and Lecturer of Philadelphia, talked in a humorous vein but withal delivered a message of courage and faith in the vast possibilities for development in this country. No one could hear Dr. Cattell without full acquiescence with his serious thoughts but, at the same time, thorough enjoyment of the humorous anecdotes which he has gathered through his many years of travel. The Convention was indeed fortunate in hearing the well supported message which Dr. Cattell had to convey.

J. Walter Dohany, General Attorney, Michigan Central Railroad, Detroit, gave some early history of railroad construction and some convincing figures to show that railroads have been large consumers of our product.

Our old friend Major Ripley was called upon to make a few impromptu remarks which he did in his characteristically humorous and forceful manner. All of those who attended the banquet were enthusiastic in their praise and left with an even greater feeling of pride in their organization.

The Thursday morning session was instructive to quarry operators, particularly those who are troubled with alleged damage from blasting. Harold Williams, Jr., Member of the Boston Bar, in a very entertaining manner treated of the legal aspects of vibrations resulting from quarry operation, while Prof. Edward H. Rockwell, Dean, College of Engineering, Rutgers University, New Brunswick, N. J., in a very understandable and pleasing way described something of the work which he has been doing in connection with earth vibrations caused by quarry blasting and their effects on structures.

W. J. McGarry, Manager, Car Service Division, American Railway Association, Washington, D. C., spoke on "Transportation Preparedness." He told of the excellent work which the American Railway Association is doing to prevent open top car shortages and stated that if the shippers will continue to cooperate in the future as they have so effectively done in the recent past, that there seems to be little likeli-

hood of an open top car shortage in the immediate future or for some years to come.

A very simple method for testing concrete for concrete roads in the field was described by H. F. Clemmer, formerly Engineer of Materials for the State Division of Highways, Springfield, Illinois, and now connected with the Solvay Sales Corporation, New York City. Mr. Clemmer stressed the desirability of testing concrete in cross-bending. Such a test affords a means for determining when to open a concrete road without danger of producing failure.

The report of the Committee on Welfare and Safety was presented at the luncheon immediately following the morning session. It was a splendid report and was characterized by Dr. Willis A. Moore, of the Elliott Service Company, as one which was not only most excellently prepared but which was workable and would give good results if followed out. A discussion of this report was also given by E. E. Evans, of the Whitehouse Stone Company, Toledo, Ohio, and D. C. Souder, of the France Stone Company, also of Toledo.

Dr. Oliver Bowles, Supt. of the U. S. Bureau of Mines Experiment Station, New Brunswick, N. J., presented a paper on research as an aid to safety and efficiency. He showed very clearly how cooperation of the industry with the Bureau of Mines had been of considerable benefit to the industry in the past and there is no question that the Bureau has been of very great assistance to various industries. The Bureau of Mines is to be highly commended on the cordial cooperation always received from its personnel.

W. Scott Eames occupying the Chair announced that an election of officers would be held for the coming year and stated that the Nominating Committee had nominated for President, Otho M. Graves; for Treasurer, James Savage; for Secretary, J. R. Boyd; for Director, Bureau of Engineering, A. T. Goldbeck. As a result of the election all of these officers were unanimously elected and Mr. Graves was escorted to the Chair by two of the past Presidents, John Rice and E. J. Krause. Elections were also made to the Board of Directors and several new regional vice-presidents also were elected. This election because of its importance will be reported elsewhere.

A new scheme for financing the Association was brought up by President Graves and it was announced by him that the Board of Directors recommended a plan which divided the membership into a number of different classifications depending upon their tonnage. This plan will be described in detail elsewhere. In brief, however, it consists of payment of dues in accordance with a scale which is not mandatory but rather suggestive and it depends upon a tonnage classification. The member may elect the particular classification in which he believes he is entitled to belong. The plan was voted upon and passed unanimously by those present at the meeting. President Graves resumed the chair temporarily held by W. Scott Eames and declared the Tenth Annual Meeting of the National Crushed Stone Association closed.

One could not help gaining general impressions from attendance at such a convention as held at Detroit. If there is one outstanding impression, it is that the National Crushed Stone Association surely has attained a basis of solidity

(Continued on Page 6)

The President's Page

If it be true that coming events cast their shadows before them, then that of the Detroit Convention was indeed a long one. But it now has passed into the history of the Association as our tenth and probably most successful convention. The attendance was but slightly less than five hundred, thereby breaking the previous high record of four hundred and thirty-two established in Cincinnati two years ago.

We are as yet too close to the recent foregathering of our membership to enable us to view it from that distance which alone affords such perspective as to permit accurate judgment of relative values. There are some high lights, none the less, whose brilliance we are even now safe in concluding will not be dimmed as time goes on. To our distinguished speakers we are deeply indebted for the unusually instructive and delightful addresses to which we listened with attention. To mention any by name would be an unwarranted discrimination. It speaks well for the future of this Association when so many men of affairs, distinguished in their several fields of endeavor, meet with us at our annual gatherings to present the most advanced thought concerning our own industry and those to which it is allied. It was clearly observable that much of the subject matter of a number of the addresses had not been previously delivered elsewhere and that the latest research was placed before us as though in recognition of the scientific spirit pervading our industry. In tribute to the audiences at our several sessions and at the banquet it is but proper to state that your President, as well as many of the speakers, was impressed by the close and eager attention given to the various talks. There is nothing more inspiring to a speaker than to feel that his audience is interested in that about which he is talking, nor does anything else so draw from him the best that he has to give. In this regard we may be rightly proud of our own attitude of mind, and it was always with a feeling of confidence as to the attention and interest of the audience that the presiding officer introduced each of the speakers. We are proud of our Association and rightly so, a pride which we hope will grow and thrive, having its roots in that consciousness that we are endeavoring to do only that which is right, and to manifestly accord that courtesy and attention which is due those who have honored us by their presence and which is echoed by them in an increased respect for the industry in which we are engaged. Many of the speakers commented to your President, and doubtless to others, upon what they graciously termed the intelligence of the audience at the convention and the respectful attention with which they were uniformly heard. It seems but fitting that our membership should know this, as we naturally value the opinion of others.

It is but proper that you should be informed that your

President has written to each of our convention guests, as well as to all the speakers, expressing in behalf of the Association our pleasure in having them with us.

* * * *

Not often is a more delightful or enjoyable banquet held by any industry or profession than was ours in Detroit—a splendid attendance in which was included the gracious presence of many ladies; an excellent dinner; forceful, inspiring addresses, all combined to achieve this result.

Mr. Howard Bair proved an able toastmaster and justified his selection for this post of honor.

We gratefully acknowledge our indebtedness to each of the banquet speakers. Mr. Sheets admirably maintained his reputation as one of the most eloquent and interesting speakers in the American Association of State Highway Officials. Aside from our occupation and viewing it as citizens interested in the welfare of our country, it is reassuring to know that such ideals as expressed by Mr. Sheets exist in our highway departments.

Mr. Upham, substituting at the last moment for Mr. Brosseau, who was ill in New York, acquitted himself in that admirable manner which is characteristic of all that he does.

The breathless spell cast upon us all by the magnificent eloquence, the keen humor and the fine idealism of Dr. Cattell will remain long in our memories as an experience delightful and inspirational.

The difficult task of following Dr. Cattell was ably handled by Mr. Dohany. But what else could be expected of one versed in the law and enjoying the distinction of one high in the councils of the railroad world?

Nor can we easily forget the delightful extemporaneous talk of our old friend, Major Ripley. We hope he knows that the latchstring is always out for him and that a cordial, hospitable welcome is his for the taking.

* * * *

Three of our four ex-presidents graced the speakers' table. A. J. Blair, our first President, was unable to attend; but he wrote us a long letter explaining with obvious regret the reasons which prevented his being with us. To those men who in turn as President carried the Association so successfully through its early days of trial and tribulation, we owe a debt of gratitude whose only payment can be a grateful acknowledgment from us as to our obligation. Mr. Schmidt and Mr. Sloan could not be with us in physical

form, but we like to think that with their loyalty to the Association their spirits hovered about us with tender solicitude and encouragement.

* * * *

The exposition exceeded our expectations, high as they were. On every side was heard praise of the extent, scope and interest of the equipment and materials displayed by our associate members. Surely no executive or operating head could have thoughtfully inspected each of the booths without leaving the rooms with a realizing sense of increased knowledge. We hope that the manufacturers measured at its real value the interest in and enthusiasm for their exposition so clearly manifested by everyone in attendance. Even now we are told that the exposition at the next convention will exceed in size and value that of the convention just passed. In Detroit the target was set high and is worthy of the best marksmanship; but then we have that confidence in our manufacturing brethren which leads us to feel that they will successfully accomplish that which they set out to do, so that we are prepared to believe their promise as to another year.

* * * *

That wisdom which has so manifestly characterized the actions of the Manufacturers' Division was again displayed in the election of Arthur King as Chairman for the ensuing year. Mr. King brings to his task an enthusiasm, a belief in the value of the Association to the industry, and a marked idealism which gives promise of increased mutual service. He enjoys the confidence of active and associate members alike. We congratulate him and the Division upon his election.

The choice of the Vice Chairmen and the members of the Board of Directors of the Division was equally discriminating as to keenness of judgment.

* * * *

To the Regional Vice Presidents, the members of the Board of Directors, the chairmen of the standing committees and the members thereof, and to the convention committees we are indebted. To them is properly attributable much of such progress as the Association has made during the last year and to the successful handling of the convention. They have given of their time in unstinted measure, and it is only by such united and hearty support that we can hope to accomplish those things which lie ahead of us. Upon our Board of Directors during the coming year will rest the difficult task of carrying out some of the policies determined upon by our membership in convention assembled and of inaugurating such new ones during the year as necessity may demand.

Our gratitude to our Treasurer, James Savage, should not be overlooked. An arduous work is his and one upon which the limelight is not thrown. His reward comes from the consciousness of a valuable service ably and conscientiously performed.

* * * *

We should be remiss both in duty and in courtesy if we failed to express to the young ladies in our Washington Office and in that of the President our appreciation for their

untiring devotion to the difficult task assigned them. That they worked faithfully, conscientiously and effectively was reflected in the manner in which the difficult details of registration, publication of our Daily Journal, the sale of tickets, and all the other matters to which they attended, were cared for. Under the direction of our capable secretary, nothing else was to be expected; but the able assistance which they furnished him was of marked value.

The service of the Secretary's office to our membership was bodily transferred from Washington to Detroit and we sincerely congratulate Mr. Boyd upon the manner in which he handled the vexatious and trying details in order that the convention might move smoothly and easily.

* * * *

It will be recalled that at the last convention session it was voted that the recommendation of the Board of Directors be adopted as to urging each member to hold as many individual memberships of twenty-five dollars each as would bring his total annual payments to the Association on the approximate basis of fifty dollars per fifty thousand tons of production. To subscribe upon this basis will not increase, in many cases, the present dues; and where an increase exists, it will not be sufficient in size as to warrant a failure to whole-heartedly support the plan. With all of our dues upon this basis, the Association should have a sufficient annual revenue to not only successfully carry forward the work it has already undertaken, but to so enlarge it along sound lines as will insure greater service to the industry. A letter from the Secretary's office will shortly go forward to each member and we bespeak for it your sympathetic influence and support.

Your President speaks for the other officers, as well as for himself, in pledging to you their earnest efforts to advance the interests of the Association and the industry throughout the coming year.

Our Convention at Detroit

(Continued from Page 4)

which augurs well for the future. The whole Convention proceedings demonstrated the constructive nature of the program upon which the Association is engaged.

Strong ties of fellowship between competitors and between producers and consumers also were made apparent. It would seem utterly impossible for anyone to return home from the Detroit Convention without having been inspired to a greater belief in one's fellows and greater faith in the steady progress of the industry.

Many thanks are due our speakers, officers, committees and others who lent their aid and presence in support of a most successful convention.

DETROIT CONVENTION ELECTS OFFICERS FOR 1927

The following officers and members of the Board of Directors of the National Crushed Stone Association were unanimously elected by the Detroit Convention for the year 1927:

President

Otho M. Graves

Treasurer

James Savage

Secretary

J. R. Boyd

Director, Bureau of Engineering

A. T. Goldbeck

Regional Vice-Presidents

Mortimer Wandell—Eastern

T. I. Weston—Southern

G. J. Whelan—Central

W. F. Wise—Southwestern

W. R. Sanborn—Northern

A. R. Wilson—Western

C. M. Doolittle, Canadian

Board of Directors

(*Ex-Presidents and Regional Vice-Presidents are ex-officio Members of the Board*)

W. M. Andrews,
Youngstown, Ohio.

H. E. Bair,
Toledo, Ohio.

W. W. Boxley,
Roanoke, Va.

C. D. Brewer,
Duluth, Minn.

L. R. Cartwright,
Indianapolis, Ind.

O. P. Chamberlain,
Chicago, Ill.

N. S. Greensfelder,
Wilmington, Del.

F. T. Gucker,
Norristown, Pa.

A. F. King,
Marion, Ohio.

J. C. King,
Youngstown, Ohio.

Harry Landa,
New Braunfels, Texas.

A. S. Lane,
Meriden, Conn.

Thos. McCroskey,
Knoxville, Tenn.

R. N. McDowell,
Kansas City, Mo.

F. C. McKee,
Pittsburgh, Pa.

F. C. Murphy,
Chicago, Ill.

Allen Patterson,
Findlay, Ohio.

Stuyvesant Peabody,
Chicago, Ill.

Russell Rarey,
Columbus, Ohio.

H. E. Rodes,
Nashville, Tenn.

S. R. Russell,
Wilmington, Del.

James Savage,
Buffalo, N. Y.

F. W. Schmidt, Jr.,
Morristown, N. J.

J. F. Schroeder,
Davenport, Iowa.

W. L. Sporborg,
Syracuse, N. Y.

J. W. Stull,
Rocky Point, Va.

R. B. Tyler,
Louisville, Ky.

A. L. Worthen,
New Haven, Conn.

ing officers and members of the Board of Directors were elected:

Chairman

Arthur F. King,

Marion Steam Shovel Company

Marion, Ohio.

Vice-Chairmen

H. M. Davison,
The Hayward Co.,
New York City.

C. B. Andrews,
Canadian Explosives, Ltd.,
Montreal, Canada.
E. G. Lewis,
Bucyrus Co.,
Milwaukee, Wis.

Board of Directors

Arthur F. King, Chairman,
Marion Steam Shovel Co.,
Marion, Ohio.

C. B. Andrews,
Taylor-Wharton Iron &
Steel Co.,
High Bridge, N. J.

Geo. G. Armstrong,
Armstrong Mfg. Co.,
Waterloo, Iowa.

Gordon Buchanan,
C. G. Buchanan Co.,
New York City.

H. M. Davison,
The Hayward Co.,
New York City.

W. E. Farrell,
Easton Car and Con-
struction Co.,
Easton, Pa.

M. B. Garber,
Sanderson-Cyclone Drill
Co.,
Orrville, Ohio

R. W. Gillispie,
Jeffrey Mfg. Co.,
Columbus, Ohio.

Fred A. Gill,
Gill Rock Drill Co.,
Lebanon, Pa.

N. S. Greensfelder,
Hercules Powder Co.,
Wilmington, Del.

*Representing the Manufacturers' Division on the
Board of Directors of the National Crushed Stone Association*

Arthur F. King,

Marion Steam Shovel Co.,

Marion, Ohio.

N. S. Greensfelder,
Hercules Powder Co.,
Wilmington, Del.

S. R. Russell,

E. I. du Pont de Nemours & Co.,
Wilmington, Del.

MANUFACTURERS' DIVISION ELECTS OFFICERS FOR 1927

At a meeting of the Manufacturers' Division held at the Detroit Convention on January 20, 1927, the follow-

BIGGER AND BETTER EACH YEAR

A Comparison of the Detroit and Montreal Registrations

The table shown below gives in detail the registration of the Detroit and Montreal Conventions and the following comparisons seem to be worthy of note:

The total registration at Detroit was 493 as compared with 385 at Montreal, these figures being distributed as follows:

	Detroit	Montreal
Active Delegates	231	161

	Detroit	Montreal
Associate Delegates	159	119
Guests	103	105
Active Firms Represented.....	92	77
Associate Firms Represented.....	59	55

It is also interesting to note that this year at Detroit there were twenty-seven states and Canada represented, whereas last year at Montreal there were twenty-three states and Canada represented.

State	Total Registered		Delegates from Active Firms		Delegates from Associate Firms		Guests		Active Firms Represented*		Associate Firms Represented*	
	Detroit	Montreal	Detroit	Montreal	Detroit	Montreal	Detroit	Montreal	Detroit	Montreal	Detroit	Montreal
California.....	3	0	3	0	0	0	0	0	2	0	0	0
Colorado.....	1	0	0	0	1	0	0	0	0	0	1	0
Connecticut.....	13	19	10	12	1	1	2	6	3	3	1	1
Delaware.....	7	5	0	0	7	4	0	1	0	1	3	3
Georgia.....	2	0	2	0	0	0	0	0	1	0	0	0
Illinois.....	75	41	23	16	35	18	17	7	10	9	11	9
Indiana.....	11	1	6	1	0	0	5	0	2	1	0	0
Iowa.....	5	2	3	0	2	2	0	0	3	0	1	1
Kentucky.....	2	1	2	1	0	0	0	0	2	2	0	0
Maryland.....	2	3	0	2	1	1	1	0	0	1	1	1
Massachusetts.....	10	17	4	5	0	0	6	12	2	2	0	0
Michigan.....	23	0	7	0	4	0	12	0	1	0	0	0
Minnesota.....	6	2	6	2	0	0	0	0	4	2	0	0
Missouri.....	9	5	5	3	1	1	3	1	4	1	0	1
New Jersey.....	15	21	10	12	1	3	4	6	7	7	1	1
New York.....	65	69	28	28	30	20	7	21	10	15	13	6
North Carolina.....	1	1	0	0	0	0	1	1	0	0	0	0
Ohio.....	113	63	64	32	32	20	17	11	16	13	8	11
Pennsylvania.....	60	37	19	15	29	19	12	3	7	6	11	11
Rhode Island.....	4	7	1	5	0	0	3	2	0	1	0	0
South Carolina.....	3	0	3	0	0	0	0	0	1	0	0	0
Tennessee.....	5	2	4	2	0	0	1	0	3	2	0	0
Texas.....	4	4	3	3	0	0	1	1	3	3	0	0
Virginia.....	1	1	1	1	0	0	0	0	1	1	0	0
Washington, D. C.	9	3	5	2	0	0	4	1	0	0	0	0
West Virginia.....	1	2	0	2	1	0	0	0	0	1	1	0
Wisconsin.....	15	14	5	4	9	8	1	2	3	0	4	5
Canada.....	23	60	17	12	4	22	2	26	7	6	1	5
South Dakota.....	0	4	0	1	0	0	0	3	0	0	0	0
No State Given.....	5	1	0	0	1	0	4	1	0	0	0	0
Totals.....	493	385	231	161	159	119	103	105	92	77	57	55

* In tabulating the number of active and associate firms represented, the firms have been listed only from the state in which their headquarters are located even though representatives were present from other states.

The CRUSHED STONE JOURNAL

J. R. BOYD, Editor

A. T. GOLDBECK, Director, Bureau of Engineering

The National Crushed Stone Association

OFFICERS

OTHO M. GRAVES President
Drake Building
Easton, Pa.

J. R. BOYD, Secretary

JAMES SAVAGE, Treasurer

REGIONAL VICE-PRESIDENTS

Mortimer Wandell (Eastern) G. J. Whelan (Central) W. R. Sanborn (Northern)
T. I. Weston, (Southern) W. F. Wise, (Southwestern)
A. R. Wilson, (Western) C. M. Doolittle, (Canadian)

EXECUTIVE COMMITTEE

H. E. Bair
W. Scott Eames

O. M. Graves, Chairman
F. R. Kanengiser
E. J. Krause

W. L. Sporborg
C. M. Doolittle

EX-PRESIDENTS

A. J. Blair
W. Scott Eames

John Rice
F. W. Schmidt

E. J. Krause
J. J. Sloan

REPORT OF COMMITTEE ON WELFARE AND SAFETY OF THE NATIONAL CRUSHED STONE ASSOCIATION

Presented at the Tenth Annual Convention—Detroit, Mich., January 20th, 1927

The Committee on Welfare and Safety was appointed by President Graves following the meeting of the Board of Directors in Atlantic City last summer.

Its primary purpose is to promote organized effort throughout the entire crushed stone industry towards reducing the number of accidents at crushed stone quarries, and thereby diminishing the suffering caused to employees and their dependents, and the financial loss to the industry.

Statistics compiled by the United States Bureau of Mines from the data supplied by companies participating in the National Safety Competition showed that in 1925 the average accident severity rate at quarries operated by members of the National Crushed Stone Association was appreciably higher than the average for quarries producing stone used in the manufacture of cement.

It is the belief of some impartial judges with long experience in many industries that the more favorable showing in the cement plants is to a large extent the result of the organized accident-prevention campaigns that have been conducted for years by the Portland Cement

Association with the cooperation of all its members.

The first meeting of your Committee on Welfare and Safety was held in New York City, October 15, 1926. This meeting was also attended by members of the Executive Committee of our Association and representatives of the United States Bureau of Mines.

Definite recommendations were agreed upon as plans for procedure most desirable at this time, and it was voted to submit these to the membership at the annual convention for approval.

The Committee's Recommendations.

(1) That a complete, detailed statistical study be made and issued annually covering accidents from all causes throughout the industry in order to provide an intelligent basis for directing preventive measures.

(2) That a pamphlet on Standard Safety Practices in Quarries be compiled and published, that will enable each member company to place in the hands of its employees helpful recommendations for the safe conduct of every day tasks.

(3) That a safety organization be perfected at each operating plant and that elected representatives of the employees cooperate with the appointed representatives of the management through a safety committee, for the safe-guarding of life and property. The National Safety Council has offered to prepare an outline, on recommended methods for organizing safety committees. Copies of this outline will be distributed to all members of the National Crushed Stone Association with the compliments of the National Safety Council.

The United States Bureau of Mines has offered to prepare each year a detailed statistical analysis for the entire industry at no cost to the Association. The only requirement is an obvious one, namely that all members of the Association shall furnish the Bureau with the necessary data on which to base its statistical studies. For this purpose a carbon copy of the monthly accident reports which all operators must furnish to their State Industrial Commissions will suffice.

Invitation from United States Bureau of Mines

The following official communication on this subject has been received by your Committee from the United States Bureau of Mines:

"To the members of the National Crushed Stone Association in convention at Detroit:

"Quarry operators holding membership in the National Crushed Stone Association are cordially invited to participate, so far as they may be eligible, in the National Safety Competition covering the calendar year

1927. To the quarry that establishes the best safety record during the year will be awarded the bronze trophy 'Sentinels of Safety.'

"The relative standing of the contestants will be determined from accident reports furnished by the competing companies to the Bureau of Mines. At the close of the year each company will be confidentially advised of its standing in the contest.

"As competition in accident prevention is undoubtedly one of the chief factors for promoting safety work, it is earnestly hoped that many of the members of the National Crushed Stone Association will find it to their interest to participate in this joint effort to make stone-quarrying a safer occupation and to lower production costs by eliminating accidents.

"O. P. Hood, Acting Director,
For Scott Turner, Director."

Recommendations on Safety Practices Pamphlet

A sub-committee consisting of D. C. Souder, France Stone Co., E. E. Evans, Whitehouse Stone Co., Oliver Bowles, United States Bureau of Mines, and W. Dean Keefer, National Safety Council, was appointed to draft recommendations pertaining to the Safety Practices Pamphlet. This sub-committee reports as follows:

"The National Crushed Stone Association in collaboration with the National Safety Council and the United States Bureau of Mines should issue a pamphlet entitled 'Standard Practices on Safety in Quarries.' This would not be what is known as a 'code' but would outline the safety ideas of these organizations and would not conflict with any laws relative to safeguarding machinery as adopted by various states in the Union.

"The Association's pamphlet could be divided into parts or subjects as follows:

"Section 1. Blasting: Safety practices in the use and handling of explosives and in drilling operations.

"Section 2. Transportation: Safety practices in the loading, unloading and transporting of material at quarries including stripping, storage and re-claiming operations.

"Section 3. Mill Operations: Safety practices in the crushing, screening, and all other operations in the mill or plant.

"If it was decided to go further, another section pertaining to child labor, sanitation, etc., could be added."

At the invitation of your committee, the Institute of Makers of Explosives has already submitted recommendation on safety practises in the storage, transportation and use of explosives in quarries.

First-Aid Training for Employees

The United States Bureau of Mines has also been approached on the matter of giving first-aid training to employees at crushed stone quarries. The Bureau, through the chief engineer of its Mine Safety Service has expressed, not only a willingness, but a desire to do this. A letter has been prepared by your Welfare and Safety Committee and submitted to your Association's headquarters at Washington requesting members to say whether they are interested in arranging joint

instruction classes for employees at the various quarries in their respective districts. From the replies to this letter the Bureau of Mines can ascertain whether or not the number of men desiring training in any particular locality is sufficient to warrant the expense to the Bureau of sending a specially equipped first-aid and mine rescue car and crew to that place for the purpose of giving a complete course in first-aid and granting diplomas to all employees who take the training and pass a satisfactory examination at its conclusion. Your committee has been informed by Secretary Boyd that this letter will be mailed to the entire membership immediately following this Convention.

Co-operation with Quarry Section, National Safety Council

On Wednesday, January 19, your Committee on Welfare and Safety held a joint meeting with the Executive Committee of the Quarry Section, National Safety Council, of which Mr. L. R. Cartwright is chairman. At this meeting, the proposals submitted in this report were thoroughly discussed. It was agreed that if the recommendations of your committee were approved by the Association, the quarry section of the National Safety Council will concentrate its energies on the same objectives and co-ordinate its work during 1927 with that of your Committee on Welfare and Safety for the common good of the members of both organizations.

Respectfully submitted,
Committee on Welfare and Safety,
N. S. Greensfelder, Chairman.

TRADE JOURNALS COOPERATE 100 PER CENT

Our sincere appreciation and thanks are due Messrs. N. S. Greensfelder, N. C. Rockwood, H. W. Munday and H. E. Hopkins, editors of The Explosives Engineer, Rock Products, Pit and Quarry, and Cement, Mill and Quarry, respectively, for the excellent service which they rendered the Association in editing the various issues of the Daily Bulletin at the Detroit Convention. When it was found that the numerous convention details demanding the attention of the Secretary would make it impractical for him to undertake the editing of the Daily Bulletin, the trade journal editors were quick to come to the rescue and each undertook to prepare and edit the copy for one issue of the Bulletin. This was done at real personal sacrifice and we are indeed fortunate in having associated with our industry men who are so eager and willing to cooperate in every possible way to advance the interests of the Association and its activities.

J. J. Sloan

It was with the deepest sorrow and a keen appreciation of the irreparable loss to the industry that we learned, just before the Detroit Convention, of the sudden death of our beloved ex-president, J. J. Sloan. A special edition of The Crushed Stone Journal in memory of Mr. Sloan, is now in course of preparation and will be mailed in the near future.



MANUFACTURERS' DIVISION EXPOSITION

Tenth Annual Convention, National Crushed Stone Association, Book-Cadillac Hotel, Detroit, January 17-20, 1927